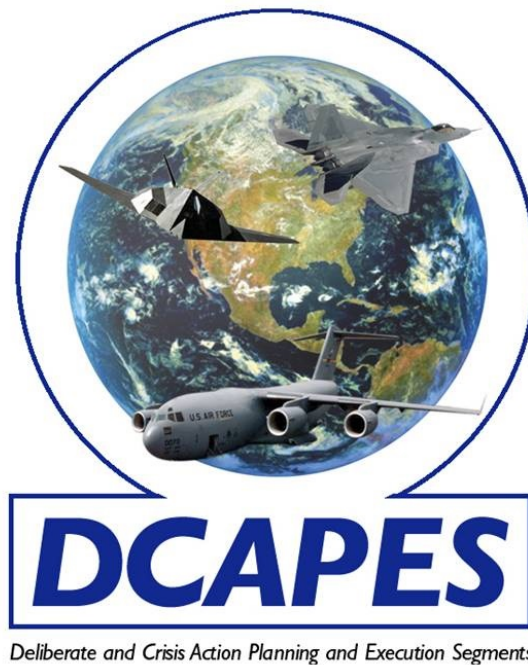




# 2016 Major Automated Information System Annual Report



## Deliberate and Crisis Action Planning and Execution Segments Increment 2B (DCAPES Inc 2B)

Defense Acquisition Management  
Information Retrieval  
(DAMIR)

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## Common Acronyms and Abbreviations for MAIS Programs

Acq O&M - Acquisition-Related Operations and Maintenance  
ADM - Acquisition Decision Memorandum  
AoA - Analysis of Alternatives  
ATO - Authority To Operate  
APB - Acquisition Program Baseline  
BY - Base Year  
CAE - Component Acquisition Executive  
CDD - Capability Development Document  
CPD - Capability Production Document  
DAE - Defense Acquisition Executive  
DoD - Department of Defense  
DoDAF - DoD Architecture Framework  
FD - Full Deployment  
FDD - Full Deployment Decision  
FY - Fiscal Year  
IA - Information Assurance  
IATO - Interim Authority to Operate  
ICD - Initial Capability Document  
IEA - Information Enterprise Architecture  
IOC - Initial Operational Capability  
IP - Internet Protocol  
IT - Information Technology  
KPP - Key Performance Parameter  
\$M - Millions of Dollars  
MAIS - Major Automated Information System  
MAIS OE - MAIS Original Estimate  
MAR – MAIS Annual Report  
MDA - Milestone Decision Authority  
MDD - Materiel Development Decision  
MILCON - Military Construction  
MS - Milestone  
N/A - Not Applicable  
O&S - Operating and Support  
OSD - Office of the Secretary of Defense  
PB - President's Budget  
RDT&E - Research, Development, Test, and Evaluation  
SAE - Service Acquisition Executive  
TBD - To Be Determined  
TY - Then Year  
U.S.C- United States Code  
USD(AT&L) - Under Secretary of Defense for Acquisition, Technology, & Logistics

## Program Information

**Program Name**

Deliberate and Crisis Action Planning and Execution Segments Increment 2B (DCAPES Inc 2B)

**DoD Component**

Air Force

## Responsible Office

**Program Manager**

Lt Col Christopher Thrower  
201 East Moore Drive  
Building 856, Room 154  
Maxwell Air Force Base-Gunter Annex, AL 36114

[christopher.thrower@us.af.mil](mailto:christopher.thrower@us.af.mil)

**Phone:** 334-416-5957

**Fax:**

**DSN Phone:** 596-5957

**DSN Fax:**

**Date Assigned:** August 2, 2015

## References

**MAIS Original Estimate**

This investment does not have an approved program baseline; therefore, no Original Estimate has been established.

## Program Description

Deliberate and Crisis Action Planning and Execution Segments (DCAPES) is a system being developed as the next-generation Air Force interface to the Joint Operational Planning and Execution System. DCAPES replaced Contingency Operations Mobility Planning and Execution System to provide capabilities which are consistent with Joint Vision 2020 related to exercising integrated Command and Control.

DCAPES is a mission critical, national security system which is the Air Force's single system used to present, plan, source, mobilize, deploy, account for, sustain, redeploy and reconstitute forces to conduct National Command Authority authorized military contingency and crisis operations. The system provides a real-time, two-way interchange of personnel, manpower, logistics, and operational data between the Air Force and the warfighting Combatant Commanders. It matches people, cargo, and airframes/weapons systems to the Combatant Commanders' warfighting requirements. Acquisition of this system supports the Air Force's expeditionary force concept.

DCAPES delivers command and control capabilities to exchange accurate and timely data for a more effective force projection across a wider range of operational scenarios. It will fully support the force provider function of the Air Force commander delivering information on the status of forces and support resources required to make timely and accurate decisions in all phases of planning and execution.

DCAPES Inc 2A delivered net-centric capabilities foundational to implementing Service Oriented Architecture and interfacing with mission tools all designed to meet the KPPs needed to meet the strategic goal of capabilities-based planning. The last capability release required to complete Increment 2A achieved Full Deployment on October 21, 2015.

DCAPES Inc 2B includes multiple discreet capability packages which will be developed in multiple smaller releases using DOD Instruction 5000.02 Model 3 processes. Each capability will be developed using several builds with one or more fieldings to satisfy the approved requirements within each package. These packages contain requirements from the DCAPES CDD, including the provision of mobilization and tracking information for Air Reserve Component forces, the capability to account for all resources supporting Air Force-directed operations, continued exposure of data to meet the goals of the DoD Net-Centric Data Strategy, mandates to reduce the use of personally identifiable information, and compliance with the Federal Data Center Consolidation Initiative.

## Business Case

The following information has not been provided in a previous annual report.

**Business Case Analysis, including the Analysis of Alternatives:** Key functional requirements were articulated in the CDD dated June 2, 2006, which called for the incremental development of capabilities. The CDD requirements were reprioritized by the War Planning Integrated Product Team on May 25, 2010 and in December 2015 the prioritized requirements were packaged into a series of Modification Proposals (Air Force Forms 1067) for incremental development. The development will include interoperability with Joint Planning and Execution Services, Public Key Infrastructure implementation, compliance with the Global Force Management - Data Initiative Implementation Plan, provide Force Availability Analysis capabilities, provide the capability to perform Manpower and Force Equipment Packaging, build and deploy the Logistics Factor File as a web service, and establish data structures and processes for automated Air Force-level Management workflows.

An Analysis of Alternative was completed on August 2, 2006. The recommended alternative consisted of Increment 2A and 2B developments, decoupling the DCAPES database from the Joint Operations Planning and Execution Systems database, ports DCAPES to a new infrastructure using a Service Oriented Architecture, and replaces the custom-built query tools with an integrated Commercial Off The Shelf product. The selected alternative was revalidated by Air Combat Command, the Lead Command, on August 24, 2010. An Economic Analysis has been performed and is in coordination with an expected completion date prior to the Milestone B Decision Review in 2nd Quarter FY 2016.

On August 20, 2013, an Acquisition Strategy Panel was conducted with the MDA outlining the proposed strategy to accomplish Increment 2B. The strategy was reviewed and approved again on June 4, 2014 when the Development Release for Proposal milestone was approved. The program awarded a contract on March 24, 2015, which included Increment 2B risk reduction activities. A Milestone B review is planned for 2nd Quarter FY 2016 and capabilities development expected to start in the 2nd Quarter of 2016.

**Firm, Fixed-Price Feasibility:** The determination of the development/integration contract type was based on cost risk associated with the estimated cost of satisfying the requirement, not any lack of clarity of the technical requirement. The Milestone Decision Authority has chosen to use a hybrid contract with both cost-type and fixed-price line items. For those tasks where the requirements are sufficiently well understood, a fixed-price contract line item is used. For those tasks that remain too complex and technically challenging such that it is not feasible to precisely estimate the cost, a cost-type line item is employed.

**Independent Cost Estimate:** AoA was completed on August 2, 2006 for Inc 2. A Cost Integrated Product Team has been established with the Air Force Cost Agency ahead of the 2nd Quarter FY 2016 Milestone B review and the Air Force Cost Analysis Agency is developing the Service Cost Position.

**Certification of Business Case Alignment; Explanation:** A business case for the DCAPES Inc 2B has not yet been completed, thus it is premature to certify that the technical and business requirements have been reviewed and validated to ensure alignment with the business case. The estimated date of completion is prior to the Milestone B decision in 2nd Quarter FY 2016.

## Program Status

**No Baseline:** This automated information system investment has not yet been baselined. A baseline will be established at the Milestone B Decision Review scheduled for 2nd Quarter FY 2016. The information provided herein is appropriate to the current status of the program. No Original Estimate baseline is being established by this report.

DCAPES expects to reach Milestone B decision for Inc 2B in 2nd Quarter FY 2016. The program is on track for a Milestone B decision approval by the MDA.

Schedule

This investment does not have an approved program baseline. Therefore, the information provided here does not constitute an Original Estimate.

Memo

Milestone B is projected for 2nd Quarter FY 2016 at that time Fund First Obligated should be known at that time.



## Performance

This investment does not have an approved program baseline. Therefore, the information provided here does not constitute an Original Estimate.

Performance Characteristics	
Development Objective/Threshold	
<b>System shall account for all resources supporting directed operations</b>	
99.8 percent accuracy in five seconds with 500 concurrent users	95 percent accuracy in five minutes with 250 concurrent users
<b>System shall provide all users the capability to track and monitor mobilization, demobilization, assigned and movement to the authorizations, individual, unit and service component of all Air Reserve Component forces</b>	
99.8 percent accuracy in five seconds with 500 concurrent users	95 percent accuracy in five minutes with 250 concurrent users
<b>System shall provide the capability to propose, staff, and approve changes to requirements and sourcing during planning and execution</b>	
99.8 percent accuracy in five seconds with 500 concurrent users	95 percent accuracy in five minutes with 250 concurrent users
<b>System shall document and manage requirements and resources associated with rotation, forward deployment, Reception, Staging, Onward movement and Integration, and redeployment of forces</b>	
99.8 percent accuracy in five seconds with 500 concurrent users	95 percent accuracy in five minutes with 250 concurrent users
<b>System shall provide integrated deployment system information to build, manage, staff Unit Type Code and produce aircraft load planning data that feed external systems</b>	
99.8 percent accuracy in five seconds with 500 concurrent users	95 percent accuracy in five minutes with 250 concurrent users
<b>System shall provide the capability to identify, manage and update unit level forces apportioned in the Joint Strategic Capabilities Plan</b>	
99.8 percent accuracy in five seconds with 500 concurrent users	95 percent accuracy in five minutes with 250 concurrent users
<b>System shall provide the capability to determine residual force availability based upon what has been deployed and what remains in garrison</b>	
99.8 percent accuracy in five seconds with 500 concurrent users	95 percent accuracy in five minutes with 250 concurrent users
<b>System shall provide users the capability to build, manage and maintain contingency organizational structure</b>	
99.8 percent accuracy in 5 seconds	95 percent accuracy in 5 minutes
<b>System shall provide automated information workflow capability to monitor user-defined changes/ activity based on user-defined parameters (e.g., alert message saying certain Unit Line Number has been changed) and view Operations Plans data</b>	

99.8 percent accuracy in five seconds with 500 concurrent users

95 percent accuracy in five minutes with 250 concurrent users

**NR-KPP: All activity interfaces, services, policy-enforcement controls, and data-sharing of the NCOW-RM and GIG-KIPs will be satisfied to the requirements of the specific Joint integrated architecture products (including data correctness, data availability and data processing), and information assurance accreditation, specified in the threshold (T) and objective (O) values.**

100% of interfaces; services; policy enforcement controls; and data correctness, availability and processing requirements in the Joint integrated architecture

100% of interfaces; services; policy enforcement controls; and data correctness, availability and processing requirements designated as enterprise-level or critical in the Joint integrated architecture

## Memo

DCAPES Inc 2A and 2B CDD, dated June 2, 2006.

## Acronyms and Abbreviations

GIG - Global Information Grid

KIP - Key Interface Profiles

NCOW-RM - Net-Centric Objective and Warfare Reference Model

Funding

This investment does not have an approved program baseline. Therefore, the information provided here does not constitute an Original Estimate. The following funding data is extracted from the FY 2017 President's Budget documentation.

DCAPES Inc 2B				
Fiscal Year	RDT&E (TY \$M)	Procurement (TY \$M)	MILCON (TY \$M)	Acq O&M (TY \$M)
2016	15.8	0.0	0.0	0.0
2017	15.1	0.0	0.0	0.0
2018	13.9	0.0	0.0	0.0
2019	11.4	0.0	0.0	0.0

Air Force APPN 3600 BA 07 PE 0207452 Project 674801 Project Name DCAPES 2B (Shared)